



IES INDOOR REPORT
PHOTOMETRIC FILENAME : CLRL4-11L-CS1-46-840.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] LED-13805
 [TESTLAB] LSI INDUSTRIES, INC.
 [ISSUE DATE] 1/3/25
 [TEST DATE] 12/09/22
 [MANUFAC] LSI INDUSTRIES, INC.
 [LUMCAT] CLRL4-11L-CS1-46-840
 [TEST PROCEDURE] IESNA LM-79-19
 [ABSOLUTE] NOTE: DATA SHOWN IS ABSOLUTE FOR THE SAMPLE PROVIDED.
 [FACTORED] SCALED FROM ORIGINAL TEST DATA
 [SEARCH_SOURCETYPE] LED
 [SEARCH_APPLICATION] Indoor
 [SEARCH_COLORTEMP] 4000
 [TESTED]

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5198
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	130
Total Luminaire Watts	40
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	3.70 ft
Luminous Width (90-270)	0.67 ft
Luminous Height	0.00 ft



LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3619	3958	4322
55	3975	4446	4956
65	4281	4848	5426
75	4177	4919	5357
85	4252	3902	3301

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	583	583	583	583	583
2.5	596	587	584	580	576
5.0	597	589	586	582	578
7.5	599	591	589	586	583
10.0	601	594	592	591	588
12.5	604	597	597	598	595
15.0	606	600	602	605	604
17.5	608	603	608	614	614
20.0	611	607	614	624	625
22.5	613	611	621	635	637
25.0	615	614	628	645	649
27.5	616	616	635	656	662
30.0	616	618	641	666	674
32.5	615	619	646	675	684
35.0	613	619	650	683	693
37.5	609	617	651	688	699
40.0	604	613	651	691	704
42.5	596	607	647	690	703
45.0	587	599	642	686	701
47.5	575	589	633	679	695
50.0	561	575	621	669	686
52.5	544	559	604	654	672
55.0	523	539	585	635	652
57.5	500	516	563	611	627
60.0	475	490	535	581	600
62.5	447	461	505	549	564
65.0	415	428	470	511	526
67.5	380	391	428	470	481
70.0	337	351	387	419	430
72.5	294	306	344	365	375
75.0	248	260	292	307	318
77.5	203	217	238	253	262
80.0	163	177	188	201	202
82.5	125	134	135	138	133
85.0	85	84	78	69	66
87.5	41	34	24	18	14
90.0	11	8	8	8	6
92.5	62	33	18	18	16
95.0	115	98	65	36	34
97.5	156	153	147	140	140
100.0	193	201	214	244	263
102.5	229	246	271	328	360
105.0	268	290	322	395	438
107.5	312	329	364	456	502
110.0	351	367	405	506	556
112.5	384	399	444	545	598
115.0	409	423	480	574	628
117.5	424	437	504	593	645
120.0	431	445	512	605	652
122.5	435	453	510	610	655
125.0	439	462	507	603	651
127.5	446	466	507	590	633
130.0	450	463	503	571	607
132.5	449	454	492	545	581

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CANDELA TABULATION - (Cont.)

135.0	443	445	474	519	552
137.5	433	438	458	502	520
140.0	422	433	450	488	495
142.5	415	427	444	472	480
145.0	413	418	436	451	466
147.5	415	407	422	436	450
150.0	414	401	409	428	436
152.5	411	400	404	422	425
155.0	404	402	402	413	411
157.5	397	401	401	405	396
160.0	393	399	395	400	391
162.5	393	396	387	394	390
165.0	396	394	382	388	390
167.5	398	394	384	385	386
170.0	398	393	388	385	385
172.5	395	390	387	385	383
175.0	389	385	382	380	378
177.5	385	380	378	375	373
180.0	377	377	377	377	377

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	227.58	N.A.	4.40
0-30	519.36	N.A.	10.00
0-40	927.58	N.A.	17.80
0-60	1946.4	N.A.	37.40
0-80	2710.17	N.A.	52.10
0-90	2801.05	N.A.	53.90
10-90	2744.88	N.A.	52.80
20-40	700.00	N.A.	13.50
20-50	1195.78	N.A.	23.00
40-70	1480.77	N.A.	28.50
60-80	763.77	N.A.	14.70
70-80	301.82	N.A.	5.80
80-90	90.88	N.A.	1.70
90-110	451.06	N.A.	8.70
90-120	938.13	N.A.	18.00
90-130	1410.45	N.A.	27.10
90-150	2061.41	N.A.	39.70
90-180	2397.26	N.A.	46.10
110-180	1946.2	N.A.	37.40
0-180	5198.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.17
10-20	171.41
20-30	291.78
30-40	408.22
40-50	495.78
50-60	523.04
60-70	461.95
70-80	301.82
80-90	90.88
90-100	97.16
100-110	353.91
110-120	487.07
120-130	472.32
130-140	376.43
140-150	274.54
150-160	188.20
160-170	110.87
170-180	36.78

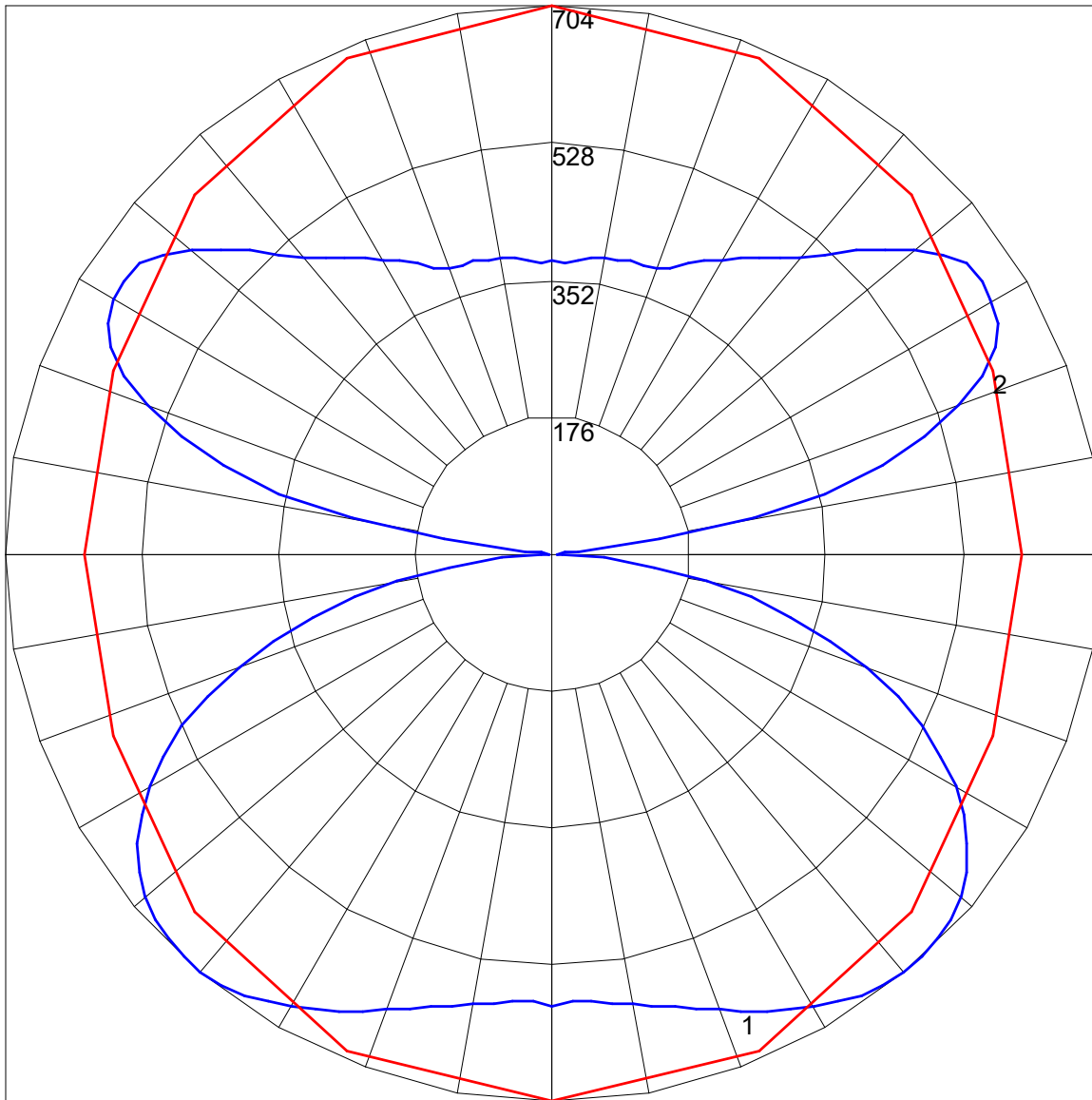
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	108	108	108	108	100	100	100	100	85	85	85	72	72	72	60	60	60	54
1	98	93	88	84	90	86	82	79	73	70	68	62	60	58	51	49	48	43
2	88	80	73	67	81	74	68	63	63	58	54	53	49	46	43	41	39	34
3	79	69	61	55	73	64	57	51	55	49	44	46	42	38	38	34	32	28
4	72	60	52	45	66	56	48	42	48	42	37	40	35	32	33	29	27	23
5	66	53	45	38	61	50	42	36	42	36	31	35	31	27	29	25	22	19
6	60	47	39	33	56	44	36	31	38	31	27	32	27	23	26	22	19	16
7	56	43	34	28	51	40	32	26	34	28	23	29	24	20	24	20	17	14
8	51	38	30	25	47	36	28	23	31	25	20	26	21	17	21	18	15	12
9	48	35	27	22	44	33	25	20	28	22	18	24	19	15	20	16	13	11
10	45	32	24	19	41	30	23	18	26	20	16	22	17	14	18	14	12	10

POLAR GRAPH



Maximum Candela = 704 Located At Horizontal Angle = 90, Vertical Angle = 40
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (40) (Through Max. Cd.)